





Welcome to

Webinar #10: Trading Market Fundamentals

Moderator: Sonia Hamel, New America Foundation

Speakers: Olivia Hartridge, Morgan Stanley

Gia Schneider, Credit Suisse

Ian Carter, *International Emissions Trading Assoc.*

Tuesday, February 26, 2008

11:30 am - 1:00 pm PST 12:30 pm - 2:00 pm MST 1:30 pm - 3:00 pm CST 2:30 pm - 4:00 pm EST

World Resources Institute Webinar Series

Olivia Hartridge, Morgan Stanley

Carbon markets: why and how?

26 February 2008

Table of Contents

Section 4	Conclusions
Section 3	Some Lessons Learned
Section 2	The Big Picture and Trading the Market
Section 1	The Morgan Stanley Team

Section 1

The Morgan Stanley Team

Morgan Stanley's Carbon Expertise

European Union Allowances

- Market maker in all contracts 2008-2012 and now developing post-2012 market
- · ISDA, IETA, EFET or Rahmenvertrag
- Active bilaterally, over-the-counter, and on ECX, Nordpool and Powernext exchanges

Guaranteed delivery CERs

- Market maker in all contracts 2008-12
- Use of standardised documentation
- Will deliver into multiple registries including UK, Dutch, German, Spanish and Danish national registries

Structuring Trades

- EUA for CER swaps
- Cross commodity trades including tolling
- Solid credit rating as a sell side or buy side counter party

Emissions

Primary Projects

- Global presence
- Actively contracting quality CDM/JI projects, plus Kyoto quality VER projects
- Extensive, diversified and growing portfolio

Voluntary carbon market services

 In conjunction with Det Norske Veritas (DNV), Morgan Stanley is providing the market's first fully-integrated carbon verification and offsetting service based on the highest international standards

Investments

- The firm has made a 38% equity investment in MGM International
- Morgan Stanley has allocated USD 3Bn for investments relating to greenhouse gas emission reductions

Contact Information

The carbon trading desk at Morgan Stanley has extensive experience of both the speculative trading and project investment sides of the carbon market, and of the regulations which underlie the market. The members of the Firm's carbon trading team, through the diversity of their career experiences, have been involved in designing, implementing and trading in the carbon market from its very beginnings.

Carbon Trading (London)

Imtiaz Ahmad	imtiaz.ahmad@morganstanley.com	+44 20 7677 5045
Olivia Hartridge	olivia.hartridge@morganstanley.com	+44 20 7677 9936
Dougal Corden	dougal.corden@morganstanley.com	+44 20 7677 7459
Lucy Hancock	lucy.hancock@morganstanley.com	+44 20 7677 5045

Commodities Trading and Origination

Charles Rankin (Managing Director)	charles.rankin@morganstanley.com	+44 20 7677 5439
John Woodley (Managing Director)	john.woodley@morganstanley.com	+44 20 7677 6862

Section 2

The Big Picture and Trading the Market

The Big Picture

The EU emissions trading scheme

- The EU ETS has a classic cap and trade design; closely modelled on Acid Rain Program
- So serves as a broad blueprint for other schemes as they develop across the world
- Assessing the scheme on its design and its objectives, it has been a success
- Too much focus on 2005-7 over-allocation
 - Always described as being a short learning-by-doing phase
 - Over-allocation swiftly corrected for the 2008-12 phase
- Why did it happen?
- Scheme was implemented at a record pace: not enough time to collect third-party verified installation-level data as a basis for setting the 2005-7 cap
- More broadly, many of the lessons learned need to be seen in this context: capable of being resolved through small streamlining

The Big Picture

Successful design features of the EU ETS

- Source-based system: addresses emissions at the smokestack where best able to be reduced
- Monitoring and reporting standards are high and represent years of improvement and consultation
- Electronic registries system for holding allowances is modern, fast and secure
- Solid and effective compliance regime; ensures that the emissions cap is upheld through time through fixed high penalties and a 1:1 make-good provision
- The 2008-2012 emissions cap will require substantial emission reduction action
- Free-market approach: no market intervention/price controls which discourage investment and can create volatility
- Access to emission reductions generated outside of the EU ETS:
 - -Quick link to the international carbon market (project credits)
- —Creates a safety valve which simultaneously encourages

Trading the Market

The EU ETS market

- The over-the-counter (OTC) market is most liquid (taking into ECX exchange-for-physicals (EFPs))
- OTC trading is currently for forward delivery on 1 December of each year 2008-12, the spot market is awaiting allocation of allowances
- 1 December 2008 is the most liquid contract, trading 3 to 4 million tonnes a day on average
- European Carbon Exchange (ECX) is the most liquid exchange compared to Nordpool and EEX exchanges.
- The OTC market is complicated by the fact that three master agreements (IETA, ISDA, EFET) are used for the same underlying commodity due to individual firm preferences
- Some options trading does occur but not yet very liquid
- Options market may grow in time in terms of liquidity given the number of banks and hedge funds that have entered the EU ETS market
- Out of the compliance participants, some of the generators are the most sophisticated, quickest movers in the EU ETS market
- Generators continuously evaluate their power production portfolio (gas coal fuel oil) against power and carbon prices

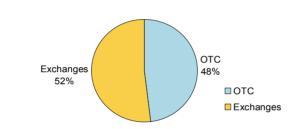
Trading the Market

EU ETS – Split between markets

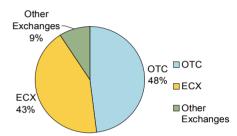
Market Shares - "Over the counter" and Exchange-traded markets

OTC Vs Exchange Traded

As of 31 Jan 2007



OTC, ECX and Other Exchanges As of 31 Jan 2007

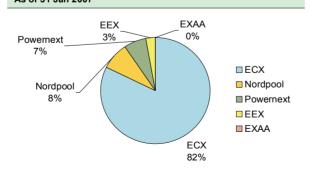


Source LEBA

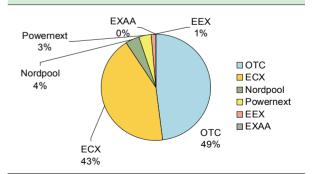
Source LEBA

Source LEBA

All Exchanges As of 31 Jan 2007



Total Market Volume As of 31 Jan 2007



Source LEBA

Section 3

Some Lessons Learned

Data Verification

- Data quality is paramount to a successful ETS
- EU ETS monitoring and reporting standards are high
- But the EU ETS legislation did not provide the same underpinning for verification standards, and equally the accreditation standards for approving verifiers
- Therefore verification and accreditation standards are not harmonised across the EU ETS
- The European Commission has proposed to address this through its post-2012 review of the EU ETS
- Also, there is no harmonised way of penalising the non-submission of emissions data. Regulators need to ensure this doesn't become a legal loophole (i.e. the penalty for each missing allowance still functions.)
- Lesson learned: treat monitoring, reporting and verification as a coherent whole; so harmonise verification and accreditation across the EU to a high standard

Data release

- Generally 4 principles for releasing market sensitive information or data:
 - -the information/data is correct
 - -it is summarised, e.g. using headline figures, in a neutral and easily understandable way
 - -the date and time for the release is announced at least a few days in advance
 - -the whole market can access the data simultaneously (e.g. through a web site supported by powerful servers)
- Fulfilling these principles gives the market confidence and sends the signal that the ETS is run professionally
- Lesson learned: market sensitive data can no longer be released through surprise political statements/speeches; government officials may need training on market abuse/insider trading rules

Allocating emissions allowances

- The emissions cap has to be set comfortably below verified historic emissions levels and in line with any other national/international obligations
- Any interacting policy e.g. renewables must also be crystal clear with respect to how the target has been incorporated into the ETS cap and how it is to be achieved
- There needs to be recognition that the carbon market affects prices in other markets, and vice versa. So if the emissions cap is on the verge of being too generous, or not set far enough ahead, multiple market prices can be influenced by rumours and political signals, which generates additional volatility in all these markets
- The distribution of the cap must be clear and incentivise action not delay e.g. no updating of the emissions baseline
- The cap and its distribution must be stable through time: e.g. power plant investments require a 15 to 20 year payback period and carbon pricing is key in assumptions made for debt and equity financing plus commodity hedging of new plants
- Lesson learned: trading periods of 3-5 years are not long enough; they

 This metal deposition of the companies of the companies are not long enough; they

 are the companies are not long enough; they

 they companies are not long enough; th

Variable market participation

- Even if there is a theoretical financial incentive to participate in an ETS market, experience in both the UK ETS and EU ETS shows that market participants that have allowances to sell don't always enter the market
 - possibly because the company's day-to-day business means that it is not so active in markets in general
 - -possibly because current accounting rules do not require the market value of allowances as an asset, and the market value of emissions as a liability, to be shown on the balance sheet
- If these market participants are over-allocated allowances as a form of compensation e.g. because they are more exposed to international competition, the imbalance in the market between active buyers and sellers is further aggravated with price implications e.g. upwards price bias
- Lesson learned: instead of compensating certain market participants through allowances, it is better to consider auctioning allowances and then providing compensation through Auction Revenue Rights (as per the New England transmission markets). This ensures full participation in the market and the recognition of the value of allowances on the balance sheet, whilst still allowing policy goals to be attained

Section 4

Conclusions

Conclusions

- The EU ETS has been a success so far and is the major driving force behind the international carbon market
- As a result, investors are actively searching out emission reduction opportunities worldwide
- The EU ETS experience is highly relevant to other regions developing schemes: no region faces issues particularly different from other regions so no need to start re-inventing the wheel and start designing a trading scheme from scratch
- But market participants are currently very wary about the ability of regulators to successfully set the conditions for a liquid and deep market delivering minimum cost reductions
- Regulators need to be diligent about consulting appropriately, not springing surprises, setting out clear and simple rules which deliver environmental integrity, providing short to medium-term certainty, and managing confidential data with the utmost care
- If this is achieved, not only will the market respond more

 sympathetically to ideas and good intentions, but will also deliver

 this material is not a solicitation of any offer to buy or sell any security, commodity or other financial instrument (or related derivative) or to participate in any trading strategy. This

 material was not preprinted by the Morgan Stanley research department, Pease refer to important information and qualifications at the end of this material.

 The description of the property of the Morgan Stanley research department, pease refer to important information and qualifications at the end of this material.

Disclaimer

This material was prepared by sales, trading, banking or other non-research personnel of one of the following: Morgan Stanley & Co. Incorporated, Morgan Stanley & Co. International Limited, Morgan Stanley Japan Securities Co., Ltd., Morgan Stanley Capital Group Inc., Morgan Stanley Dean Witter Australia Limited and/or Morgan Stanley Dean Witter Capital Group (Singapore) Pte (together with their affiliates, hereinafter "Morgan Stanley"). Unless otherwise indicated, these views (if any) are the author's and may differ from those of the Morgan Stanley fixed income or equity research department or others in the firm.

This material has been prepared for information purposes only and is not an offer to buy or sell or a solicitation of any offer to buy or sell any security, commodity or instrument or related derivative (hereinafter "instrument") or to participate in any trading strategy. Any such offer would be made only after a prospective participant had completed its own independent investigation of the instrument or trading strategy and received all information it required to make its own investment decision, including, where applicable, a review of any prospectus, suppendent, offering circular, term sheet or memorandum describing such instrument or trading strategy. That information must supersede this material and contain information not contained herein and to which prospective participants are referred. If this material is being distributed in connection with or in advance of the issuance of asset backed securities, information herein regarding any assets backing any such securities supersedes all prior information regarding such assets. We have no obligation to tell you when information herein is stale or may change. We make no representation or warranty with respect to the accuracy or completeness of this material, nor are we obligated to provide updated information in therein.

This material may have been prepared by or in conjunction with Morgan Stanley trading desks that may deal as principal in or own or act as market maker or liquidity provider for the instruments mentioned herein. Where you provide us with information relating to an order or proposed transaction ("Information"), we may use that Information to facilitate the execution of your orders or transactions, in managing our market making, other counterparty facilitation activities or otherwise limiting the risks to which we are exposed). Counterparty facilitation activities may include, without limitation, us taking a principal position in relation to providing counterparties with quotes or as part of the ongoing management of inventories used to facilitate counterparties. Trading desk materials are not independent of the proprietary interests of Morgan Stanley, which may conflict with your interests. Morgan Stanley may also perform or seek to perform investment banking services for the issuers of instruments mentioned herein.

Any securities referred to in this material may not have been registered under the U.S. Securities Act of 1933, as amended, and, if not, may not be offered or sold absent an exemption therefrom. In relation to any member state of the European Economic Area, a prospectus may not have been published pursuant to measures implementing the Prospectus Directive (2003/71/EC) and any securities referred to herein may not be offered in circumstances that would require such publication. Recipients are required to comply with any legal or contractual restrictions on their purchase, holding, sale, exercise of rights or performance of obligations under any instrument or otherwise applicable to any transaction.

The securities, commodities or other instruments (or related derivatives) discussed in this material may not be suitable for all investors. This material has been prepared and issued by Morgan Stanley for distribution to market professionals and institutional investor clients only. Other recipients should seek independent investment advice prior to making any investment decision based on this material. This material does not provide individually tailored investment advice or offer tax, regulatory, accounting or legal advice. Prior to entering into any proposed transaction, recipients should determine, in consultation with their own investment, legal, tax, regulatory and accounting advisors, the economic risks and merits, as well as the legal, tax, regulatory and accounting consciuences, of the transaction. You should consider this material as only a single factor in making an investment decision.

Options are not for everyone. Before purchasing or writing options, investors should understand the nature and extent of their rights and obligations and be aware of the risks involved, including the risks pertaining to the business and financial condition of the issuer and the underlying instrument. A secondary market may not exist for certain of these instruments. For Morgan Stanley customers who are purchasing or writing exchange-traded options, please review the publication 'Characteristics and Risks of Standardized Options,' which is available from your account representative.

The value of and income from investments may vary because of changes in interest rates, foreign exchange rates, default rates, prepayment rates, securities, prices of instruments, market indexes, operational or financial conditions of companies or other factors. There may be time limitations on the exercise of options or other rights in instruments (or related derivatives) transactions. Past performance is not necessarily a guide to future performance is not necessarily a guide to future performance are based on assumptions that may not be realized. Actual events may differ from those assumed and changes to any assumptions may have a material impact on any projections or estimates. Other events not taken into account may occur and may significantly affect the projections or estimates. Cartain assumptions may have been made for modeling purposes only to simplify the presentation and/or calculation of any projections or estimates, and Morgan Stanley does not represent that any such assumptions will reflect actual future events. Accordingly, there can be no assurance that estimated returns or projections will be realized or that actual returns or performance results will not materially differ from those estimated herein. Some of the information contained in this document may be aggregated data of transactions executed by Morgan Stanley that has been compiled so as not to identify the underlying transactions of any particular customer.

Notwithstanding anything herein to the contrary, Morgan Stanley and each recipient hereof agree that they (and their employees, representatives, and other agents) may disclose to any and all persons, without limitation of any kind from the commencement of discussions, the U.S. federal and state income tax treatment and tax structure of the transaction and all materials of any kind (including opinions or other tax analyses) that are provided to it relating to the tax treatment and tax structure. For this purpose, "tax structure" is limited to facts relevant to the U.S. federal and state income tax treatment of the transaction and does not include information relating to the identity of the parties, their affiliates, agents or advisors

Please note that market data may be proprietary and confidential to the relevant exchange, index owner or information provider and may reserve all intellectual property rights in such data. Such data should also not be disseminated without their consent, and such permission may depend upon execution of an agreement or payment of an applicable fee. No representation or warranty, express or implied, can be given with respect to the accuracy, completeness, correctness, sufficiency or usefulness of the information. Morgan Stanley and the relevant exchange, index owner or information provider disclaims any and all liability for any loss howsoever arising from, related to or in connection with any use of any of the information or other materials contained herein, including without limitation any express or implied representations or warranties for, statements contained in, omissions from, the information contained herein. Morgan Stanley or the relevant exchange, index owner or information provider may suspend or terminate received it is being missued or misrepresented.

This material may not be distributed in any jurisdiction where it is unlawful to do so. This material may not be sold or redistributed without the prior written consent of Morgan Stanley. This material is not a product of Morgan Stanley's Research Department and should not be regarded as a research report.

© 2007 Morgan Stanley.





Proposed post-2012 design elements

Issue	European Commission proposal
Cap-setting approach	 EU-wide cap published in the Directive for the unilateral scenario A procedure is set out to change the cap in the event of an international agreement causing the EU to move to a 30 % below 1990 emissions target
Level of the cap	 Emissions in 2020 will be 21% below 2005 reported emissions (1.72 Gt in 2020) The cap will be reduced linearly on an annual basis of 1.74% per year between 2013 and 2020
Auctioning volume	 100% auctioning for power sector from 2013 Industry will start with 80% free allocation, reducing to zero free allocation by 2020
Auctioning modalities	 Auctioning will be conducted by Member States but harmonised by Regulation. 90 % of the allocation of permits to be auctioned will be shared among Member States based on relative 2005 emissions, with a 10 % allocated according to GDP per capita (aimed at income redistribution to Member States) 20% of revenue will be recycled back into domestic mitigation (including CCS), poverty reduction, deforestation (in LDCs) and adaptation
Expanded coverage	 CO2 from petrochemicals, ammonia and aluminium N2O from nitric acids and PFC from aluminium Streamlined definition of combustion installation CCS plants



Proposed quantitative restrictions on CDM

Scenario	Under the ETS	Sovereign
Unilateral	Unused Phase II CER/ERU allowance	3% of non-ETS 2005 emissions (around 500 Mt over phase)
Delay	Unused Phase II CER/ERU allowance	3% of non-ETS 2005 emissions (around 500 Mt over phase)
International agreement	Up to 50% of the anticipated extra reduction in the EU ETS cap (EU moving from 20 % to a 30 % emissions reductions target below 1990)	3-8% of non-ETS emissions (around 500 – 1300 Mt over phase)
Transfer rules	Language suggests by operator only at the discretion of national authorities	Government to government transfer is allowed

In March 2007, European Heads of Government agreed to either:

- Reduce GHG emissions by 20% below 1990 levels by 2020 unilaterally, or
- Reduce GHG emissions by 30% below 1990 levels by 2020 in the event of an international agreement

Restrictions on imports are aimed at providing the EU with a bargaining chip with developing countries in the international negotiations on a post 2012 deal



Price Expectations EUAs

Source	€/t	vintage
Point carbon	36	2013
Idea Carbon	25 - 45	2008
New Carbon Finance	40?	2013
Deutsche Bank	35	2008
► Fortis	27 - 48	20??

Bankability Bu Prices 3rd phase Hong form Potentially Pullish

Abatement

Technology

Fuel switch

RECS

Targets

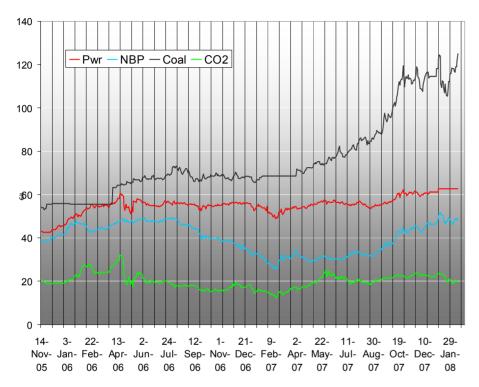
Major Uncertainties/ Main Drivers:

- Renewable targets (RECS) are not met;
- Abatement technologies
- Impact of potential international trade agreement
- Fuel Prices
- German baseload
- Weather

Long term	Potentially Bullish
Long term	Potentially Bearish
Long term	Likely Bullish
Short - Mid Term	Bearish/Bullish
Med Term	Bearish/Bullish
Short Term	Bearish/Bullish



Fuel Switching Level and Carbon



Correlations of EUAs vs underlying 30 days are relatively low

It is hard to pick a winner

Carbon has come under pressure due to rallying coal prices...

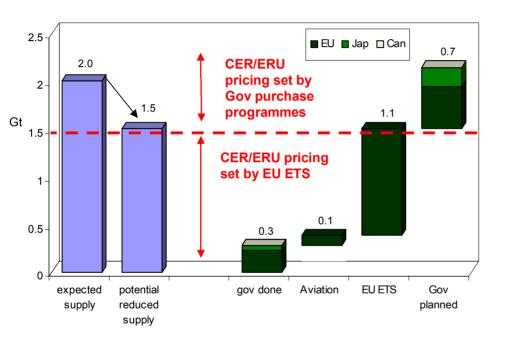
... but power should start to rally too given the low dark and spark spreads

In addition, carbon is still trading below fuel switching levels





Long-Term Fundamentals CERs: Supply / Demand should determine price driver of GCERs/GERUs

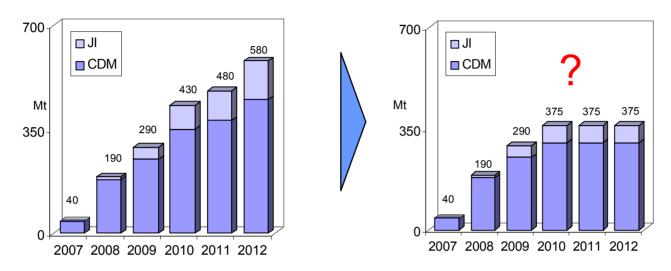


Prior to EU's announcement the overall market had small potential to be tight, but was likely able to fully cover EU ETS demand

- Governments (incl Japanese companies) are planning to buy up to 1.0 Gt of CDM to meet their Kyoto targets; of which about 0.3 Gt is purchased already.
- Aviation has a potential demand for CER/ERUs of about 0.1 Gt
- ▶ EU ETS demand is about 1.1 Gt due to supplementarity cap.
- Hence if the supply of CER/ERUs drops below 2.0 Gt the CDM market will be constrained.
- Market will even get tighter if government desire to buy more CERs/ ERUs due to their remaining "Kyoto gap" (potentially 2.0 Gt) although CDM/JI have to compete against IET (AAU sales).
- However, selling CER/ERUs to EU ETS is preferred over selling to government due to higher prices.
- CER/ERU pricing likely only change fundamentally if supply of CDM/JI drops below 1.5 Gt as, below that level, the EU ETS will set price instead of governmental purchase programs.



What Changed?



Recent announcements could level off the supply of CDM due to uncertainties about future value post Kyoto:

- Number of CER/ERUs in PDD (in validation) and pipeline (pre validation) is huge (about 5 Gt)
- However, late projects will likely require any post 2012 value to materialize in order to make project profitable
- Current uncertainties about whether a follow-up of the Kyoto treaty will be negotiated, could postpone or cancel investments in new projects

Recent announcements could increase the demand for CDM/JI in the first phase:

- EU ETS announced that supplementarity can be carried over to 3rd EU ETS trading phase
- Hence it is likely that most of the supplementarity cap of 1.4 Gt will be utilized in phase 2
- However, aviation will probably join the EU ETS a year later and their emission targets will be less stringent
- Governments have more time to cover their short due to true up period

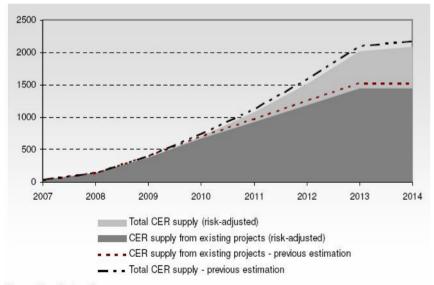


26

Supply of CDM/JI is key for pricing

Total CDM/JI supply 2008-2012 (including 2013) according to different sources:

	08-12	08-13
Point carbon	2.4	3.2
▶ Idea Carbon	2.0	2.5*
New Carbon Finance	2.0	2.5*
► Soc Gen	2.1	2.5*



Source: New Carbon Finance

A large number of parties appear to question the high prediction of inflow of CERs/ERUs

- They anticipate severe time lags due to constraints in validators/ verifiers
 - DOEs already face difficulties in processing current inflow whereas rate of CERs issued per quarter will have to increase almost fivefold to meet the 2.0Gt supply
- UN appears apply more stringent rules in approval process
- Projects are producing less than expected (landfills etc)
- Others reason that a number of projects might be cancelled
 - Long term outlook is very uncertain as EU's reviews on ETS implies that inflow CDM will be limited post 2012 in particular if no international treaty is reached
 - Project developers might have to focus on on going business due to liquidity issues

Counter arguments to the above

- Progress in US and elsewhere that drives forward post-2012 framework
- A lot of projects are already initiated and likelihood they will be cancelled is low due to low inherent costs



Registration Clearly Lagging Behind..

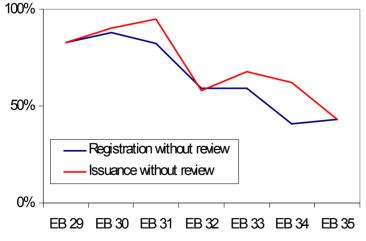


Will UNFCCC/ Validators catch up ...

...or will the UNFCCC be more stringent in approval process, with respect to registration as well as issuance?

... are some methodologies facing issues?

What is the overall effect on supply?



	PDD volumes (Mt) Registered PDDs	Public PDDs	Registered	Registered
year of reduction	2007	2007	2007	2000-2012
Energy efficiency improvement	7.3	28.1	26 %	18 %
Fuel switching	0.7	2.3	29 %	18 %
Fugitive emissions	5.1	17.0	30 %	28 %
Industrial processes	84.1	92.1	91 %	84 %
LULUCF	0.1	0.4	12 %	6 %
Other	0.1	0.1	95 %	87 %
Renewable energy	23.2	44.3	52 %	31 %
Waste	19.5	27.3	71 %	49 %
Total	140.1	211.8	66 %	48 %



Thank you

Gia Schneider

+1 212 325 5185

gia.schneider@credit-suisse.com



These materials have been provided to you by Credit Suisse ("CS") in connection with an actual or potential mandate or engagement and may not be used or relied upon for any purpose other than as specifically contemplated by a written agreement with CS. In addition, these materials may not be disclosed, in whole or in part, or summarized or otherwise referred to except as agreed in writing by CS. The information used in preparing these materials was obtained from or through you or your representatives or from public sources. CS assumes no responsibility for independent verification of such information and has relied on such information being complete and accurate in all material respects. To the extent such information includes estimates and forecasts of future financial performance (including estimates of potential cost savings and synergies) prepared by or reviewed or discussed with the managements of your company and/or other potential transaction participants or obtained from public sources, we have assumed that such estimates and forecasts have been reasonably prepared on bases reflecting the best currently available estimates and judgments of such managements (or, with respect to estimates and forecasts obtained from public sources, represent reasonable estimates). These materials were designed for use by specific persons familiar with the business and the affairs of your company and CS assumes no obligation to update or otherwise revise these materials. Nothing contained herein should be construed as tax, accounting or legal advice. You (and each of your employees, representatives or other agents) may disclose to any and all persons, without limitation of any kind, the tax treatment and tax structure of the transactions contemplated by these materials and all materials of any kind (including opinions or other tax analyses) that are provided to you relating to such tax treatment and structure. For this purpose, the tax treatment of a transaction is the purported or claimed U.S. federal income tax treatment of the transaction and the tax structure of a transaction is any fact that may be relevant to understanding the purported or claimed U.S. federal income tax treatment of the transaction.





Trading Market Fundamentals

WRI, the Pew Center and New America Foundation Webinar February 26, 2008

Policy Coordinator, North America
International Emissions Trading Association



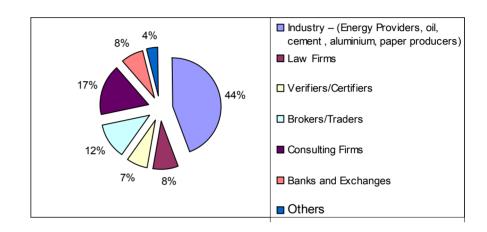
IETA is dedicated to:

- the objectives of the United Nations
 Framework Convention on Climate Change and ultimately climate protection;
- the development of an active, global greenhouse gas market, consistent across national boundaries; and
- maintaining societal equity and environmental integrity while establishing these systems



IETA status

- Membership 184 as of January 2008
 - 44%: emitters
 - 56% project developers, intermediaries, financial institutions, brokers, verifiers, legal firms



- IETA offices
 - Headquarters in Geneva
 - Ottawa
 - Brussels Office Opened in June 2007
 - Washington DC Office Open this summer



Key lessons from EU experience

- Lessons learned
 - It can be done
 - Verified baseline data is critical
 - Allocation must ensure sufficient scarcity in a predictable manner
 - Infrastructure must be fully operational
 - Markets will work to correct price



Key lesson – Possible

- A "downstream" GHG cap and trade program is possible to implement on this scale.
 - Retail electricity prices will increase. The cost of CO₂ allowances will be passed on in wholesale energy markets regardless of allocation method, unless energy market regulation precludes that.
 - Financial intermediaries will take an active and important role in delivering cost certainty – and should be encouraged to do so
- Linkages can be made between national ETSs, and between a national ETS and international GHG offset programs.



Key lesson - Data

- Good data is critical for all market participants
 - Verified GHG emissions data is essential for creating an initial GHG emissions cap that can provide some market certainty.
 - This data is market-sensitive environmental regulators must balance traditional public transparency with a new concern for market disruption
 - Orderly and predictable release is fundamental



Key lesson - Allocation

- The decentralized 'National Allocation Plan' process is timeconsuming, highly-contentious, complex to implement and has led to inconsistent allocations. Resulting uncertainty has decreased market effectiveness
- Multiple allocation periods coupled with long-term policy uncertainty reduces incentives to invest in new low-carbon technologies.
- The 'Phase' structure used in Europe inevitably led to a 'cliff edge' effect – initially that appeared to a 30+ Euro price, then collapse
 - Banking plays a critical role in avoiding either extreme



Key lesson - Infrastructure

- Institutions must provide predictable timelines
- Infrastructure can be rolled out, but that should not introduce uncertainty
 - Example: delay of the ITL (International Transaction Log) needed for CER entry into EU ETS has been disruptive



Key lesson - Markets

- Markets work
 - In a liquid market, high prices will call additional supply
- Avoid the "Goldilocks Imperative"
 - Ex ante market parameters will be more efficient than direct intervention
 - Credible long-term framework for investment
 - Price and volume and delivery risks managed efficiently via market
 - Banking/borrowing flexibility via market



Elements of a success

- A GHG market program is successful by being wider, deeper, and longer
 - Wider = Credibility: adding sectors and linking capped sectors/jurisdictions, transitional offsets to encourage early abatement, robust additionality
 - Deeper = Efficiency: flexible compliance to extend sectoral coverage, effective enforcement
 - Longer = Certainty: reliable emissions information, banking and borrowing flexibility



For more information

International Emissions Trading Association

www.ieta.org

Ian Carter carter@ieta.org

CARBON FORUM AMERICA 2008

February 26-27

